

HELASTOPOL POLYESTER MINERAL HELASTOPOL POLYESTER

REINFORCED ELASTOMERIC WATERPROOFING MEMBRANE
MADE FROM THERMOPLASTIC RADIAL STYRENE-BUTADIENE RUBBER

GRANTS *LEED* CREDITS

| CATEGORY | CHARACTERISTICS | | ENVIRONMENTAL | | | | | | METHOD OF USE | | | | | |
|--|---|--|--|---|--|---|---|---|--|---|---|--|--|--|
|  ELASTOMERIC |  WATERPROOF |  REAZIONE TO FIRE |  ECO GREEN |  ASBESTOS FREE |  TAR FREE |  CHLORINE FREE |  RECYCLABLE |  NON DANGEROUS WASTE |  EXHAUSTED OIL FREE |  TORCH APPLICATION |  HOT AIR APPLICATION |  NAILING |  COLD ADHESIVE BONDING |  APPLICATION WITH MOLTEN BLOWN BITUMEN |

* For waterproofing membranes with TEXLAMINA underface finish only

DESCRIPTION

HELASTOPOL POLYESTER and **MINERAL HELASTOPOL POLYESTER** are elastomeric polymer-bitumen waterproofing membranes with rot-proof, composite reinforcement made of "non-woven" polyester fabric stabilized with fibreglass to guarantee a dimensional stability which is from two to three times higher than that of normal "non-woven" polyester fabric.

The mix used in **HELASTOPOL POLYESTER** membranes is based on distilled bitumen and "phase inversion" thermoplastic rubber, in which the elastomer constitutes the continuous polymeric matrix and the bitumen the dispersed phase. The thermoplastic rubber, made up of a block copolymer of radial styrene-butadiene-styrene (SBS), gives the mix high elasticity and flexibility at low temperatures.

The polyolefins are added to the SBS-bitumen mix to increase the heat resistance and rigidity so as to make the membrane easier to lay in the summer season whilst maintaining most of the exceptional elasticity characteristics of the rubber-bitumen compound.

Both faces of **HELASTOPOL POLYESTER** are covered in Flamina hot-melt film, which guarantees the sealing of the joints and fast, secure adhesion to the laying surface.

MINERAL HELASTOPOL POLYESTER is produced with its upper face self-protected by slate granules and its lower face covered in the aforementioned hot-melt film.

The **MINERAL** membranes have a black lateral overlapping slate-free strip.

APPLICATION FIELDS

The **HELASTOPOL** membranes can be used for a wide variety of applications. Thanks to their elasticity at low temperatures they can be used in cold climates where traditional bituminous membranes are unsuitable.

Waterproofing systems using **HELASTOPOL** membranes can be used for both sloping and flat roofs, concrete tile or concrete surfaces, single slab or prefabricated, on metal decks, timber structures and stressed structures. They are also suitable for use on thermal insulation elements and inverted roofs.

MINERAL membranes can be left visible while the **HELASTOPOL POLYESTER** membranes can be covered with heavy protection (gravel or paving).

HELASTOPOL can also be used for renovation, due to the fact that they are compatible with old bituminous waterproofing.

CE

INTENDED USE OF "CE"
MARKING SPECIFIED
ACCORDING TO THE
AISPEC-MBP GUIDELINES

EN 13707 - REINFORCED BITUMEN SHEETS FOR ROOF WATERPROOFING

• Under layer or intermediate layer in multi-layer systems without permanent heavy surface protection

- HELASTOPOL POLYESTER 3 mm
- HELASTOPOL POLYESTER 4 mm
- HELASTOPOL POLYESTER 3 kg/m²
- HELASTOPOL POLYESTER 4 kg/m²
- HELASTOPOL POLYESTER 5 kg/m²

• Upper layer in multi-layer systems without permanent heavy surface protection

- MINERAL HELASTOPOL POL. 3,5 kg/m²
- MINERAL HELASTOPOL POL. 4,0 kg/m²
- MINERAL HELASTOPOL POL. 4,5 kg/m²

EN 13969 - BITUMEN DAMP PROOF SHEET INCLUDING BITUMEN BASEMENT TANKING SHEETS

• Membranes for foundations

- HELASTOPOL POLYESTER 3 mm
- HELASTOPOL POLYESTER 4 mm
- HELASTOPOL POLYESTER 3 kg/m²
- HELASTOPOL POLYESTER 4 kg/m²
- HELASTOPOL POLYESTER 5 kg/m²

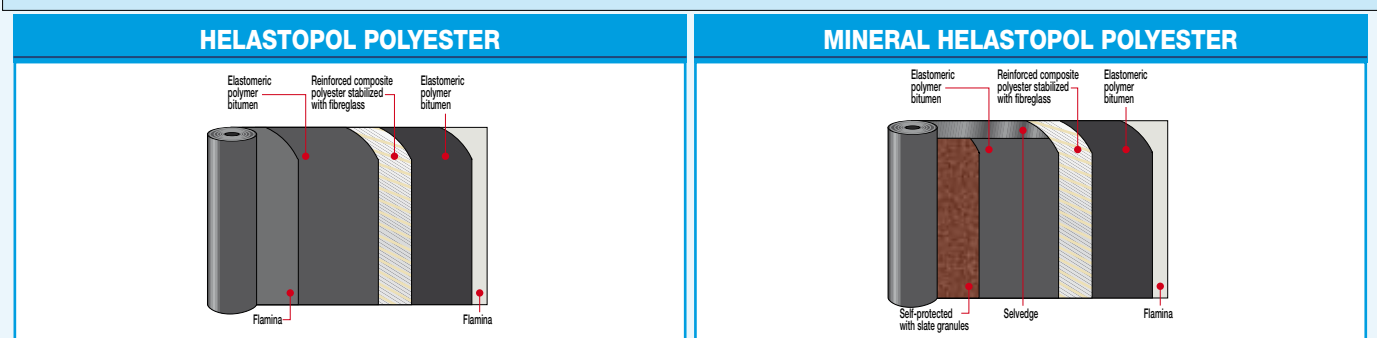
TECHNICAL CHARACTERISTICS

| | Standard | T | HELASTOPOL POLYESTER | | | | | MINERAL HELASTOPOL POLYESTER | | |
|--|-----------------------------|------------|--|--------|---------------------|---------------------|-----------------------|--|-----------------------|-----------------------|
| Reinforcement | | | "Non-woven" composite polyester stabilized with fibreglass | | | | | "Non-woven" composite polyester stabilized with fibreglass | | |
| Thickness | EN 1849-1 | ±0,2 | 3 mm | 4 mm | - | - | - | - | - | - |
| Weight | EN 1849-1 | ±10% | - | - | 3 kg/m ² | 4 kg/m ² | 4,5 kg/m ² | - | - | - |
| Weight MINERAL | EN 1849-1 | ±15% | - | - | - | - | - | 3,5 kg/m ² | 4,0 kg/m ² | 4,5 kg/m ² |
| Roll size | EN 1848-1 | ≥ | 1x10 m | 1x10 m | 1x10 m | 1x10 m | 1x10 m | 1x10 m | 1x10 m | 1x10 m |
| Watertightness • after ageing | EN 1928 - B EN 1926-1928 | ≥ ≥ | 60 kPa 60 kPa | | | | | 60 kPa 60 kPa | | |
| Shear resistance L/T | EN 12317-1 | -20% | 350/250 N/50 cm | | | | | - | | |
| Maximum tensile force L/T | EN 12311-1 | -20% | 400/300 N/50 cm | | | | | 400/300 N/50 cm | | |
| Elongation L/T | EN 12311-1 | -15% V.A. | 40/40% | | | | | 40/40% | | |
| Resistance to impact | EN 12691 - A | | 1250 mm | | | | | - | | |
| Resistance to static loading | EN 12730 - A | | 10 kg | | | | | - | | |
| Resistance to tearing (nail shank) L/T | EN 12310-1 | -30% | 120/120 N | | | | | 120/120 N | | |
| Dimensional stability L/T | EN 1107-1 | ≤ | NPD | | | | | -0,25/+0,10% | | |
| Flexibility to low temp. • after ageing | EN 1109 EN 1296-1109 | ≤ +15°C | -15°C NPD | | | | | -15°C -15°C | | |
| Flow resistance at high temperature | EN 1110 | ≥ | 100°C | | | | | 100°C | | |
| Reaction to fire Euroclass | EN 13501-1 | | E | | | | | E | | |
| External fire performance | EN 13501-5 | | F roof | | | | | F roof | | |

Compliant with EN 13707 in terms of the resistance factor to steam penetration for reinforced polymer-bitumen membranes, the value of $\mu = 20\ 000$ may be considered, unless declared otherwise.

the numerous possible uses and the possible interference of conditions or elements beyond our control, we assume no responsibility regarding the results which are obtained. The purchasers, of their own accord and under their own responsibility, must establish the suitability of the product for the envisaged use.

COMPOSITION OF THE MEMBRANE



PRODUCT FINISH



FLAMINA. Plastic protection film helping prevent coils from sticking to the roll. As it withdraws under the action of the flame right during its installation, it signals the best melting point in order to correctly glue the membrane to the brackets and rises. When not heated, it can be used as a sliding layer.



MINERAL PROTECTION. On the visible face of the membrane, a protective coating made up of slate granules of various colours is hot bonded. This mineral shield protects the membrane from ageing caused by UV rays.

The figures shown are average indicative figures relevant to current production and may be changed or updated by INDEX at any time without previous warning. The advice and technical information provided, is what results from our best knowledge regarding the properties and the use of the product. Considering

• FOR ANY FURTHER INFORMATION OR ADVICE ON PARTICULAR APPLICATIONS, CONTACT OUR TECHNICAL OFFICE • IN ORDER TO CORRECTLY USE OUR PRODUCTS, REFER TO INDEX TECHNICAL SPECIFICATIONS •

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|---|--|---------------------------------------|--|-----------------------------------|------------------------------------|---|---|
| <p>index Construction Systems and Products</p> | <p>Internet: www.indexspa.it For technical and commercial information: tecom@indexspa.it Accounting department: index@indexspa.it Export department: index.export@indexspa.it</p> | <p>TOTAL QUALITY index</p> | <p>Environmental Management Systems index</p> | <p>UNI EN ISO 9001</p> | <p>UNI EN ISO 14001</p> | <p>index "GBC Italia" Associated</p> | <p>MBDP PRODOTTORE MEMBRANE E TETTOI PERILATE POLIMERI</p> |
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